location of eddies. Arrows indicate approximately the flow of the cold and the hot gases. The pockets of relatively cold, chilled gases form banks of soot and dirt. Letters on this figure designate the points where the pyrometer couples were located.

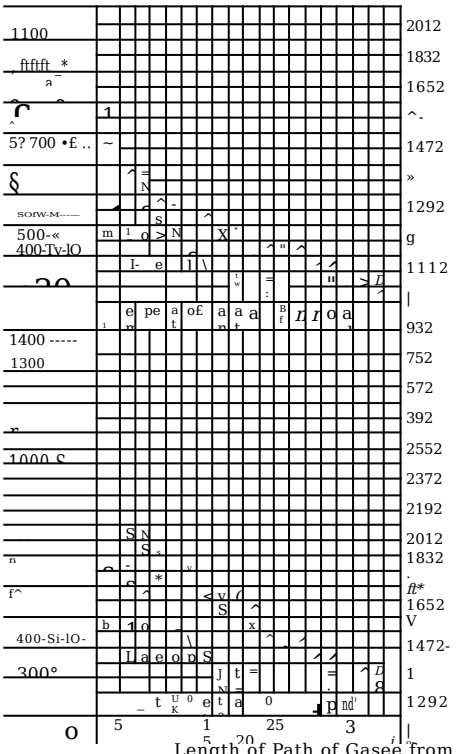

FIG. 175.

Curve showing temperature of gases flowing through single pass horizontally baffled boiler. Positions of thermo-couple are indicated by letters in Fig. 174. Solid lines curve show temperatures indicated by couples. Dotted" curve shows approximate computed true temperatures, dash curve computed velocity of gases at different points. The velocity curve, being probably based on the sectional area of the pass, is erroneous. Upper and ower diagrams show similar data for two different initial temperatures.

Fig. 171 shows the curve of temperature drop through the setting. One of the interesting features of this curve is the difference between the indications of the large and the small couples. It is rather important that the pyrometer couple be suited to the